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a plurality of conductive rotor bars spaced from the rotating shaft and fixed thereto through at least one intermediate member, at least one of the plurality of conductive rotor bars having at least one first internal conduit integrally formed therein; and circulation means for establishing a coolant circulation through the first internal conduit.

B2

--27. (New) A rotating machine comprising:

a rotating shaft;

a plurality of conductive rotor bars spaced from the rotating shaft and fixed thereto through at least one intermediate member, at least one of the plurality of conductive rotor bars having at least one first internal conduit; and

circulation means for establishing a coolant circulation through the first internal conduit;

wherein the rotating shaft having a first wall defining a second internal conduit extending from an inlet end to an outlet end thereof, the rotating shaft further having first and second coolant holes in the first wall and communicating with the second internal conduit, wherein the coolant is circulated through the first internal conduit from the second internal conduit by way of the first and second coolant holes;

wherein each of the plurality of conductive rotor bars having a first and second end, the at least one first internal conduit extending from the first to second end; the rotating machine further comprising:

a first end plate having a first bore in which the rotating shaft is sealingly fixed in proximity to the first coolant hole, the first end plate further having means for sealingly fixing the first end of each conductive rotor bar having the at least one first